807/97-58-9-3/13

AUTHORS: Fridkin, A.Ya., Korotkov, P.A., Belobrov, I.K. and

Klevtsov, V.A., Engineers

TITLE: Pre-cast Pre-stressed Reinforced Concrete Beams Serving

as Support to Bridge Cranes (Sbornyye zhelezobetonnyye

predvaritel'no napryazhennyye podkranovyye balki)

PERIODICAL: Beton i Zhelezobeton, 1958, nr 9, pp 329 - 336 (USSR)

ABSTRACT: The most effective type of beam for supporting bridge cranes, as far as economy of concrete and steel are

concerned, is the one that is continuously reinforced. This continuous minforcing method requires special machinery and equipment. Consumption of concrete and steel in beams reinforced with rods is much higher than those with continuous or batch reinforcement. Beams with rod reinforcement are economical only when heavy cranes are used and reinforcement type 30KhG2S. It is not so economical to use rod reinforcement in beams of 12 m span when compared with similar beams reinforced with batch reinforcement. Leningrad Promstroyproyekt, in conjunction with NIIZhB, is working on a project for

pre-stressed reinforced concrete beams 6 and 12 m long, designed to carry cranes with capacity of up to 50 tons.

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SOV/97-58-9-3/13 Pre-cast Pre-stressed Reinforced Concrete Beams Serving as Support to Bridge Cranes

Figure 1 illustrates beams with rod reinforcement of standard profile and steel Mark 25028. The reinforcement is tensioned to 2.5% of its length, not less than limit of elasticity is 5 000 kg/cm². 4 700 kg/cm²; Table 1 shows typical cross-sections of 6 and 12 m rod reinforced beams and gives repective technical data. Table 2 shows typical cross-sections of 6 and 12 m batch reinforced beams and gives respective technical data. The NIIZhB carried out tests with both rod and batch reinforcement of these beams. In the case of beams with batch reinforcement, special anchoring washers were used which were not welded to rods and it was necessary to ascertain the anchoring properties of the reinforcement in the concrete when these washers were omitted. Tests were carried out by Engineer I.K. Belobrov and Candidates of Technical Sciences S.A. Dmitriyev and N.M. Mulin in a laboratory that specialises in the theory of reinforced concrete and reinforcement (Head: Professor A.A. Gvozdev). Figure 3 illustrates horizontal cracks at the end of the beam. The effect of these cracks on the collapse of the end of the beam under testing

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Pre-cast Pre-stressed Reinforced Concrete Beams Serving as Support to Bridge Cranes

conditions is described. To prevent the formation of the horizontal cracks at the end of the beams, part of the cross reinforcement at the end was pre-stressed in order to compress the concrete in this part of the beam. Tensioning was 1/6th of the value used for longitudinal reinforcement. No horizontal cracks appeared after this (Figure 4). Illustration of the method and the machines used for the investigation of pre-stressing of beams 6 and 12 m long is given in Figure 5. Figure 6: graph of deflections of crane-carrying beams (PN6-1, PN6-2 and PN6-3) with pre-stressed reinforcement and beam PO6-1 reinforced without pre-stressing. It shows that prestressed reinforced beams are twice as strong and crack formations are only one-fourth. The casting of beams 12 m long was made possible by the construction of a machine DN-7. Figure 7 shows the continuous reinforcement of the beam. The concrete used has strength of 400 kg/cm² and the reinforcement is of hightensile wires of 3 - 4 mm diameter. Figure 8 shows the method of winding continuous reinforcement and casting two beams. A method

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Pre-cast Pre-stressed Reinforced Concrete Beams Serving as Support to Bridge Cranes

of this continuous reinforcing of crane-carrying beams was developed by Candidate of Technical Sciences G.I. Berdichevskiy, and testing of beams was carried out by Engineer V.A. Klevtsov in the laboratory of NIIZhB. Figure 10 gives deformation graph of concrete units of the beam in the middle of its span. Tests show that the strength of the beam is considerable; its deflection was 3.2 - 3.6 mm which is 1/1 800 to 1/1 600 of the span. Table 3 gives values of beams carrying cranes of 30-ton capacity. These values show that the most economical type of reinforcement is the continuous minforcement of these beams. The Leningrad Promstroyproyekt designed open-lattice type of crane-carrying beam from pre-stressed reinforced concrete (Figure 11). There are 11 figures

Card 4/4

ULITSEIY, B.Ts., doktor tekhn.nauk; ELEVISOV, V.A., insh.

Torsion analysis of prestressed reinforced concrete crane girders. Bet. i shel.-bet. no.4:165-169 Ap '59.

(Cranes, derricks, etc.)

(Girders)

(Girders)

KLEVISOV, V. A., Cand Tech Sci -- (diss) "Research on the work and technology of manufacturing prefabricated, reinforced contrete, continuously reinforced, pre-stressed crane booms." Moscow, 1960, 18 pages; (Ministry of Higher and specialized Secondary Education RSFSR, Moscow Automobile and Road Institute); 160 copies; price not given. (KL, 50-60, 133)

BERDICHEVSKII, G. I., kand.tekhn.mauk, KLEVISOV, V.A., 1.1h. APPROVED FOR RELEASE: 06/19/2000 PP-86-00513R000723020019-7"

Testing prestressed concrete crane beams with continuous reinforcements. Trudy HIEEB no.14:47-125 '60. (MIRA 13:10) (Cranes, derricks, etc.) (Girders-Testing)

HERDICHEVSKIY, G.I., kand.tekhn.nauk; KLEVISOV, V.A., insh.

Study of prestressed continuously reinforced crane beams of 12-meter span, manufactured on stands with the use of DN-7 machines. Trudy NIIZHB no.24:128-144 '61. (HIRA 15:5) (Beams and girders)

KLEVISOV, V.A.

FRENKEL', I.M., kand. tekhn. nauk; MIRONOV, S.A., doktor tekhn. nauk, prof.; BARANOV, A.T., kand. tekhn. nauk; BUZHEVICH, G.A., kand. tekhn. nauk; HIKHAYLOV, K.V., kand. tekhn. nauk; MULIN, N.M., kand. tekhn. nauk; KHAYDUKOV, G.K., kand. tekhn. nauk; KORNEY, N.A., kand. tekhn.nauk; TESLER, P.A., kand. tekhn. nauk; HERDICHEVSKIY, G.I., kand. tekhn. nauk; VASILIYEV, A.P., kand. tekhn. nauk; LYUDKOVSKIY, I.G., kand. tekhn. nauk; SVETOV, A.A., kand. tekhn. nauk; CHINENKOV, Yu.V., kand. tekhn. nauk; BELOBROVYY, .K., insh.; KLEVTSOV, V.A., inzh.; DOBHOMISLOV, N.S., arkh.; DESOV, A.Te., doktor tekhn. nauk, prof.; LITVER, S.L., kand. tekhn. nauk; PISHCHIK, M.A., insh.; SKIYAR, B L., insh.; POPOV, A.P., kand, tekhn, nauk; HEKRASOV, K.D., doktor tekhn, nauk, prof.; MILOVANOV, A.F., kand. tekhn. nauk; TAL', K.E., kand. tekhn. nauk; KALATUROV, B.A., kand. tekhn. nauk; KARTASHOV, K.N., red.; MAKARICHEV, V.V., kand. tekhn. nauk, red.; YAKUSHEV, A.A., insh., nauchnyy red.; BEGA, B.A., red. izd-va; HAUMOVA, G.D., tekim, red.

[Reinforced concrete products; present state and prospects for development]Zhelezobetonnye konstruktsii; sostoianie i perspektivy razvitiia. Pod obshchei red. K.N.Kartashova i V.V.Makaricheva. Moskva, Gosstroiizdat, 1962. 279 p.

(MIRA 15:8)

(Continued on next card)

· 海·神間別階版

FRENKEL', I.M .-- (continued) Card 2.

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhelezobetona, Perovo. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Kartashov). 3. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Mironov). 4. Cosudarstvennyy institut tipovogo proyektirovaniya i tekhnicheskikh issledovaniy (for Berdichevskiy, Vasil'yev, lyudkovskiy, Svetov, Chinenkov, Belobrovyy, Klevtsov, Dobromyslov). 4. Vsesoyuznyy gosudarstvennyy proyektno-konstruktorskiy institut (for Desov, Litver, Pishchik).

(Precast concrete)

KLEVTSOV, V.A.; SHISHKIN, R.G.

Results of testing standard prestressed girders with parallel booms. Prom. stroi. 42 no.9:20-24 S *164. (MIR (MIRA 17:10)

KLEVTSOV, V.A., kand.tekhn.nauk; MATVEYEV, K.M., inzh.; SUKHAREV, Yu.N., inzh.; GELLERTOV, G.N., inzh.; MART'YANOV, B.Ya., inzh.

Secondary trusses with strand reinforcement in the lower chord. Prom.stroi. 42 no.2124-28 165.

(MIRA 18:4)

NAUMENKO, A.I.; KLEVTSOV, V.I.

The effect of ACTH and continue on the tone of corebral vessels. Farm. 1 toks. 25 no.6:716-720 N-D *62.

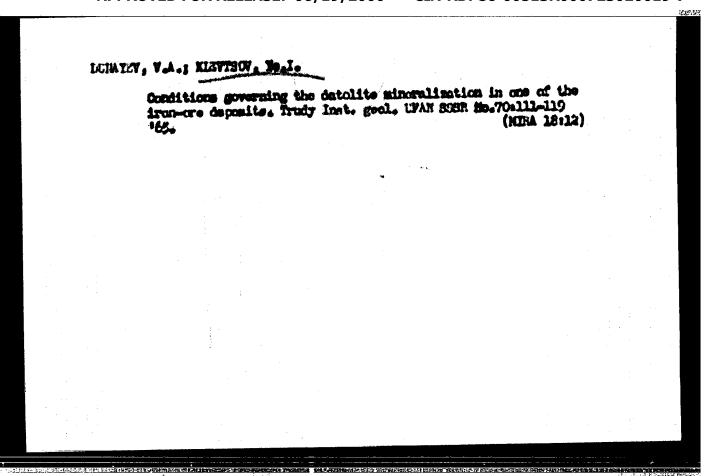
(MIRA 17:8)

1. Nauchno-issledovatel'akaya laboratoriya (zav. - doktor med. nauk S.I. Yakovlev) I Loningradokoro oziditsinskogo instituta imeni akademika I.P. Pavlova.

NEIKOVA-BOCHEVA, E1.; KLEVTSOV, V1.

Efficiency of the cooled Nitrofoska fertiliser. Izv Inst
"Nikola Pushkarov" 6:175-178 '63.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020019-7"



COMPERG, A.M.; KLEVISOV, Yu.V.

Automatic device for maintaining a given temperature in the cooling system during stand testing of engines. Avt.prom. 27 no.11:45 H *61. (MIRA 14:10)

1. Uraliskiy avtozavod imeni Stalina. (Thermostat)

VESELOYSKATA, M.M.; IVANOVA, Z.P.; CLEVESOVA, A.A.

Buried diabases in the Volga-Ural region. Izv.AN SSER. Ser.geol. 25 no.8137-57 Ag '50. (NIBA 13:8)

1. Vsesoyusnyy nauchno-issledovatel'skiy geologorasvedochnyy neftyanoy institut, Moskva.
(Volga-Ural region-Diabase)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020019-7"

C. LEGIL. VIII

IVAHOVA, Z.P.; ELEVTSOVA, A.A.; VERELOVSKATA, N.N.

Stratigraphy of Bayly sediments in the Volga-Ural region.

Trudy VHIONI no. 1917-23 159.

(Volga-Ural region--Deology, Statigraphic)

(Volga-Ural region--Deology, Statigraphic)

Pre-Devonian stratigraphy and facies in the Yelga-Ural region. fruly YMIGHI no.22:94-100 '59, (MIRA 13:11) 1. Yessoyushy nauchno-issledovatel'skiy geologo-razvedochnyy neftyandy institut. (Yolga-Ural regiondeology, Stratigraphic)	IVANOVÁ, Z.P.	. LEATY-OYA, A.A.		
等数的支援员,这次 "figed fite "的设备,最强强的企图,因此,"最后表现是是这个重要对关的通过,一个遵信法。"	Trudy	YNIGHI 10,22194-100	159	
	l. Ys: instit	int.		

3 (5)

Ivanova, Z. P., Veselovskaya, M. M., SOY/20-128-4-45/65

Klevtsova, A. A.

TITLE:

On the Stratigraphic Subdivision and the Formation Stages of Pre-Devonian Deposits in the Central and Eastern Regions of

the Russian Platform

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 4, pp 800 - 803

(USSR)

ABSTRACT:

The above deposits became interesting since petroleum was found in them. They contain Upper Proterozoic and Lower Cambrian formations in the sedimentary cover of the part of the platform mentioned above. More recent sediments: Upper Cambrian and Ordovician occur in the central regions of the platform and strike in a northwesterly direction. Only the two older ones (more than 3000 m thick) are discussed in the present paper. Quartsite sandstones (analogues of the Shokshinskiye) are the oldest of the platform formations investigated here. They rest directly upon the basement in Yulovo-Ishim and Yelshanka. They were identified by the authors as the Yulovo-Ishimskaya suite of "Iotnium". The deposits known as "Michne-Bavlinskiye" in the east, as Kaverinskaya and Serdobskaya

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On the Stratigraphic Subdivision and the Formation Stages of Pre-Devonian Deposits in the Central and Eastern Regions of the Russian Platform

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series in the central part lie stratigraphically higher above a disconformity and an angular unconformity (Refs 5,8). In the Nizhne-Bavlinskiye deposits the Kaltasinskaya- (316 m thick) and Serafimovekaya suites (450 m thick) and their time equivalent, the Serdobskaya series, are divided into lower and upper strata corresponding to the sedimentation half-cycles. In several cross sections the above suites are intruded by gabbro and diabase. Figure 1 shows the occurrence of the suites mentioned. A thick (more than 700 m) sandstone body classified ty the authors as the Leonidovskaya suite (Ref 2) rests upon the Serafimovskaya suite. The Riffian formations are transgressively overlain by Lower Cambrian sediments with an angular unconformity and a stratigraphic disconformity. This body is most probably synchronous with the Yolynskiy (volcanogenic) complex of the western part of the platform (according to Ye. P. Bruns, Ref 1). The Lower Cambrian (Yorkhne-Bavlinskiye) deposits in the eastern regions of the platform consist of 2 complete sedimentation cycles. Table 1 gives a stratigraphic section of the pre-Devonian deposits. The authors identified

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On the Stratigraphic Subdivision and the Pormation Stages of Pre-Devonian Deposits in the Central and Eastern Regions of the Russian Platform

SOY/20-128-4-45/65

several time units in the latter according to the stratification peculiarities of the old platform sediments: (1) Yulovo-Ishimskaya suite of "Totnium". (2) Riffian deposits, and (3) Lower Cambrian with decreasing angles of inclination (up to 30°, 10-17°, 0-9°, respectively). The rocks of individual structural stages belong to different zones with respect to the degree of deformation (Refs 4,6). Figure 2 shows the microphotographies of the rocks of the "Iotnium" age, figure 3 those of the Riffian ago. There are 2 figures, 1 table, and 8 Soviet references.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovateliski; geologorazvedochnyy neftyanoy institut (All-Union Scientific Research Institute of Geological Petroleum Prospecting)

PRESENTED:

May 27, 1959, by N. M. Strakhov, Academician

SUBMITTED:

January 25, 1959

Card 3/3

YESELOYSKAYA, N.N.; IVAHOVA, E.P.; ELEVISOVA, A.A.

Stages in the formation of Pre-Devonian sedimentary strata of the Russian Platform and their age. Dokl. AN SSSR 134 no.6:1410-1413 0 160. (MIRA 13:10)

1. Vsesoyusnyy nauchno-issledovatel'skiy geologorasvedochnyy neftyanoy institut. Predstavelno akademikom H.M.Strakhovym. (Russian Platform-Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020019-7"

学福園網號

KLEVTSCVA, A.A.; SOLCHTSCV, L.F.

Age of the oldest sedimentary cover of the Russian Platform.

Dokl. AN SSSR 139 no.3:673-676 Jl *61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel skiy geologorazvedochnyy neftyanoy institut i Geologicheskiy institut Kaznaskogo filiala AN SSSR. Predstavleno akademikom N.M. Strakhovym. (Russian Platform-Geology, Stratigraphic)

ELEPISOVA, A.A.; SOLOHISOV, L.F.

Stratifrephie characteristics and correlation of ancient sediments of the muntle of the Russian Flatform. Isv. Kasen.fil. AN SSSR.

Ser. geol. neuk no.9:241-248 '60. (MIRA 15:12)

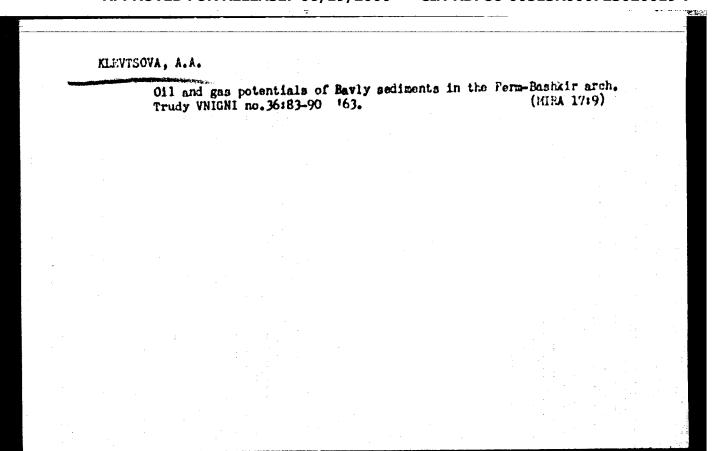
(Russian Flatform—Geology, Stratigraphie)

KIEVTSOVA, 6.4.; OSTPOVEKIY, H.I.

Bathygenic structure and the prospects for finding gas and oil in the Eavly sediments of the Upper Kasa Depression. Gool. reftl 1 gaza 8 no.3:10-13 Mr '64. (MIRA 17:6) reft1 1 gaza 8 no.3:10-13 Mr 164.

1. Vessoyuznyy nauchno-issledovstel*, kiy geologorazvedochnyy neftyency institut, Moskva.

CIA-RDP86-00513R000723020019-7" APPROVED FOR RELEASE: 06/19/2000



KLEVISOVA, λ_*A_{*3} KUTUKOV, A_*V_{*3} UDOVICHENKO, E.M.

Stratigraphy and oil potential of Pre-Middle Devonian sediments in Perm Province and the Udmurt A.S.S.R. Izv. vys. ucheb. zav.; geol. i razv. 8 no.9:21-27 S '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel*skiy geologorazvedochnyy neftyanoy institut.

VAYNSHTEYN, B.P.; KRUGLIKOV, V.Ya.; RAPOPORT, I.B.; VASIL'YEVA, Z.A.; KAGAN, L.Kh.; PLOKHINSKAYA, Ye.A.; VOLYNSKIY, A.V.; HUZOVSKIY, V.V.; KLEVTSOYA, W.P.; Prinimali uchastiye: HICHAN, A.I.; KONOVALTCHIKOV, L.D.; AYNSHTEYN, V.G.; KVASHA, V.B.; CHELYANOVA, D.P.; ZAYTSEVA, A.F.; ANDREYEVA, T.A.

New way to synthesise oxygen compounds from carbon monoxide and hydrogen over iron-copper catalysts. Trudy VNII HP no. 9:177-196 '63. (MIRA 17:6)

GLAVINSKAYA, T. A.; DOBROTINA, N. A.; GRUBE, S. B.; KLEVTSOYA, G. I.

Characteristics of protein metabolism and the reactivity of the body in lupus erythematosus. Vest. derm. 1 ven. no.418-14 162.

1. Is Gor'kovskogo nauchno-issledovatel'skogo koshno-venerologicheskogo instituta (dir. - kandidat meditsinskikh nauk 0. D.
Kochura, nauchnyy konsul'tant - saslushennyy deyatel' nauki prof.
M. P. Batunin) i kafedry koshnykh i venericheskikh bolesney
(sav. - saslushennyy deyatel' nauki prof. M. P. Batunin)
Gor'kovskogo meditsinskogo instituta imeni S. M. Kirova.

(PROTEIN METABOLISM) (LUPUS ERITHEMATOSUS)

"APPROVED FOR RELEASE: 06/19/2000

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KLEEVTSOVA	L.B				
25992					

Rol' myeditsin skoy syestry v profilaktikye shyeludoch-no-kishyechnykh esbolyevaniy v yaslyakh, myed. Syestra, 1949, No. 7, c. 22-25.

So: Letopia No. 34

KLEVISOVA, L. P.

20138 KLEVTSOVA, L. B. Antitoksicheskaya funktsiya pecheni pri rake sheyki matki. Vracheb. delo., 1949, No. 6, stb. 529-32.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

5(2), 24(3) AUTHORS:

807/156-59-2-12/48 Kusnetsov, V. A., Zagaynova, L. S. Klevtsova, H. P.,

Shevrina, Z. A.

TITLE:

The Investigation of Bleotrocapillary Phenomena on Thallium -Gold Alloys (Issledovaniye elektrokapillyarnykh yavleniy na

splayakh talliy-soloto)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1959, Nr 2, pp 268-272 (USSR)

ABSTRACT:

The dependence of the potential maxima of the electrocapillary curves upon the composition of the metal alloys has not yet been clearly fixed. The papers by S. V. Karpachev, A. G. Stromberg and collaborators (Ref 1) with analgams are mentioned. The present paper deals with the investigation mentioned in the title at 450° and a gold content of the alloy of

between 0 and 46% by atom. Thallium was supplied by the Chimkentskiy svintsovo-tsinkovyy zavod (Chimkent Lead- and Zinc Works). A sutsetic mixture of lithium- and potassium chloride served as electrolyte. Figure 1 shows the electrocapillary curves for thallium and thallium - gold alloys.

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They show that the addition of gold leads to an increased surface tension at the boundary alloy - electrolyte. With in-

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The Investigation of Electrocapillary Phenomena on Thallium - Gold Alloys

creasing gold content the maximum of the electrocapillary curve shifts in positive direction. A. N. Prumkin (Ref 4) explains this shift of the potential of the zero-charge by the fact that the added metal (gold) occupies a certain part of the surface layer. The surface density of thallium and gold are calculated on this basis according to the formula of Gibbs; it is shown by table i. The adsorption of Au becomes more and more negative with increasing gold content. For the composition of the surface the equation of E. A. Guggenheim and N. K. Adam (Ref 7) was used. Table 2 gives the surface concentration of Tl and Au and the degree of occupation of the surface layer. With increasing gold content in the alloy the degree of occupation of the surface by Au rises and attains 0.28 at a gold content of 45.9% by atom. The approximation character of the calculation - which is carried out on the assumption that the dimensions of the Tl- and Au particles are equal in the surface layer and in the alloy - is regarded as justified by the fact that the deviations of the Tl-Aualloy from the law of the ideal solution are inconsiderable. This is shown by figure 2. It is, therefore, possible to

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507/156-59-2-12/48 The Investigation of Electrocapillary Phenomena on Thallium - Gold Alloys

> neglect the effect of the mentioned differences. The average value of the potential of the zero charge referred to one electrode of melted lead in a sutectic mixture of LiCl and KO1 was found to be equal to -0.28 v . The authors thank Academician A. N. Frunkin for the interest he displayed in their work. There are 2 figures, 2 tables, and 10 references, 9 of which are Soviet.

PRESENTED BY: Kafedra fizicheskoy khimii Ural'akogo gosudarstvennogo universiteta im. A. M. Gor'kogo (Chair of Physical Chemistry, Ural State University imeni A. M. Gor'kiy)

SUBMITTED: July 22, 1958

Card 3/3

5(4) AUTHORS:

Kusnetsov, V. A., Aksenov, V. I.,

507/20-128-4-35/65

Kleytsova, M. P.

TITLE:

Zero Charge Potentials of Tellurium-Thallium Alloys

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 4,

pp 763-766 (USSR)

ABSTRACT:

The system Te-Tl was chosen because the two components
- according to data by S. Karpachev and A. Stromberg (Ref 1) have very different zero charge potentials facilitating the
determination of the dependence of the zero charge potential
of an alloy on its composition. The zero charge potentials
were determined by investigating the electrocapillary
properties of the liquid metals and alloys. The potential
of the capillary electrodes was referred to an electrode of
fused lead, the experimental temperature was 475°. Figure 1
shows the electrocapillary curves of the two components and
their alloys. An addition of Tl (up to 25 atoms) to Te
lowers the maxima of the electrocapillary curves. At

a high content of Tl, omax increases sgain. Similar observa-

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tions were made by A. N. Prumkin and A. V. Gorodetskaya (Ref 4)

Zero Charge Potentials of Tellurium-Thallium Alloys SOY/20-128-4-35/65

on the electrocapillary curves of Hg and Tl amalgam. They explained this phenomenon by the fact that the field of the electric double layer influences the adsorption of the alloying constituents in the surface film. Pigure 2 shows the dependence of the zero charge potential on the composition of the alloy. With an increasing content of Tl, the zero charge potential shifts in the negative direction. According to A. H. Frumkin, this is explained by a varying charge of the Tl adsorbed on the surface film. Θ_2 is determined – the fraction of the surface film occupied by particles of the second component (Tl). From the equation do max = $\Gamma_1 d\mu_1 = \Gamma_2 d\mu_2$ (Γ_1 = Gibbs' surface density of Te, Γ_2 = the same for Tl, μ_1 , μ_2 = chemical potentials for Te and Tl), an equation is derived for Γ_1 = 0: $\Gamma_2^{(1)} = \frac{d\sigma_{max}}{d\mu_2}$.

The activity of Tl was determined by measuring the electromotive force of the concentration chain Tl/eutectic mixture LiCl +KCl + 2% by weight of TlCl/alloy Tl-Te. The measurement results are given in table 1. Pigure 3 shows the

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Zero Charge Potentials of Tellurium-Thallium Alloys 807/20-128-4-35/65

dependence of $\Gamma^{(1)}_2$ on the alloy composition. A strong deviation from Racult's law is ascertained. This suggests that the surface film consists of dipoles and is not monomolecular. Similar phenomena were observed for the Tl amalgam by A. H. Frumkin and H. S. Polyanovskaya (Ref 6). Therefore, the potential shift for mono- and bimolecular layers was computed (Table 2), the assumption of a bimolecular layer showing a better agreement with the experimental data. The computation of θ_2 confirms the assumption made by A. H. Frum-

kin (Ref 4) stating that the shift of the zero charge potential is directly proportional to the fraction of the surface film occupied by the metal added. There are 3 figures, 2 tables, and 7 references, 6 of which are Soviet.

ASSOCIATION:

Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo

(Ural State University imeni A. M. Cor'kiy)

PRESENTED:

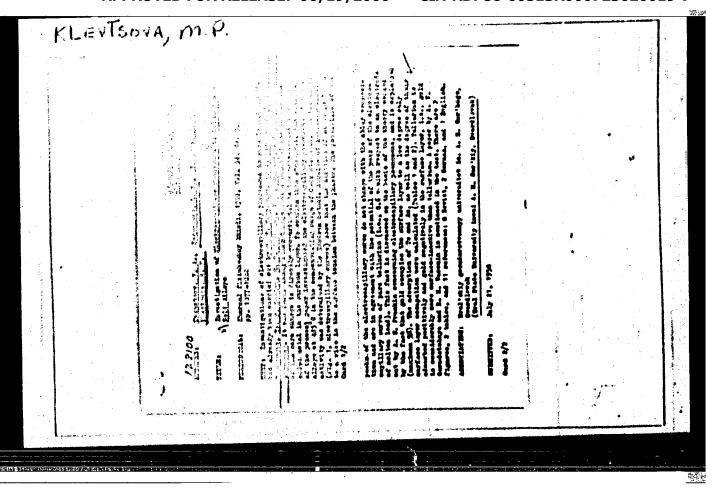
April 13, 1959, by A. H. Prunkin, Academician

SUBMITTED:

March 5, 1959

Card 3/3

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020019-7



81570 8/076/60/033/06/31/040 8015/8061

5.4600 Authors:

Kusnetsov, V. A. Klevtsova, M. P., Zagaynova, L. S., Vayntraub, L. S. Korobova, T. A. (Sverdlovek)

TITLE

Investigation of Contact Potential Differences Between Sn and Sn-Te Alloys and the <u>Blectrocapillary Phenomena</u> on Sn-Te Alloys

PERIODICAL

Zhurnal fisicheskoy khimii, 1960, Vol. 34, No. 6, pp. 1345-1350

TEXT: On account of his investigations of the electrocapillary phenomena on thallium amalgame (Ref. 1), A. N. Frunkin established that the difference in the potentials between the metals in the point of zero charges is similar to the differences in the contact potentials between the same metals in a vacuum. Experimental tests of this assumption were carried cut several times as by S. V. Karpachev and A. G. Stromberg (Ref. 2), O. Chaltykian and M. Proskurnin (Ref. 3), and V. A. Smirnov and L. I. Antropov (Ref. 4); few reliable results were, however, obtained. In this case the above examinations were carried out for this reason, as it was

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81578

Investigation of Contact Potential Differences S/076/60/034/06/31/040
Between Sn and Sn-Te Alloys and the Electro-B015/B061
capillary Phenomena on Sn-Te Alloys

to be assumed that tellurium would be surface-active with respect to tin, and thus a large difference in contact potential between Sn and Sn-Te alloys can be detected at low tellurium concentrations. The measurements were carried out at 450°C and ~10°5 torr in an apparatus (Fig. 1) similar to the one in Ref. 3, and a special ampule (Fig. 2) was used. The vacuum contained al BH-461M (VM-461M) preliminary vacuum pump} an MM-40A (MM-40A) diffusion pump, and a[BT-2 (VT-2) thermocouple- and BM-3 (VI-3) ionization-vacuum gauge. Tin purified by some melting from the Sverdlovskiy reaktivnyy zavod (Sverdlovsk Reagent Works) was used. The potential differences were determined by the method of the displacement of the diode characteristics. The diagrams obtained (Figs. 3, 4) of the differences in the contact potentials between Sn and Sn-Te alloys with 0.02 and 0.15 wt% Te show that the difference is 0.07 v or 0.15 v. The electrocapillary curves (Fig. 5) for Sn and Sn-Te alloys of the above concentration show that according to expectations, Te is surfaceactive with reference to Sn. The potentials of the zero charge are thus shifted to positive values, and the size of the shift is similar to the difference in the contact potentials between Sn and the above Sn-Te alloys

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11578

Investigation of Contact Potential Differences 8/076/60/034/06/31/040
Between Sn and Sn-Te Alloys and the Electro- B015/B061
capillary Phenomena on Sn-Te Alloys

(Table). Finally, Academician A. H. Frumkin is thanked for his advice, and the collaborator of the Institut elektrokhimii AH SSSR (Institute for Electrochemistry of the AS USSR) N. A. Shurmovekaya as well. A paper by M. V. Smirnov (Ref. 5) is referred to. There are 5 figures, 1 table, and 12 references: 11 Soviet and 1 American.

ASSOCIATION: Ural'skiy universitet im. A. M. Gor'kogo (Ural University imeni A. M. Gor'kiy)

是是连续的 原子学

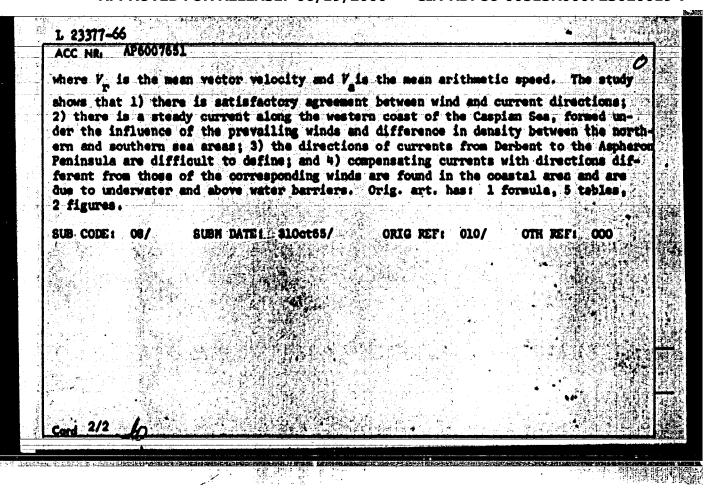
SUBMITTED: October 10, 1958

*

Card 3/3

1. 23377-66 **B**#(1) UR/0213/66/006/001/0082/0088 ACC NR AP6007651 AUTHOR: Klavtsova, N. D. ORG: Administration of gidrometeoslumbby Aserbaidshan SSR (Upravleniye gidrometeo sluzhby Azerbaydahanekoy SSR); Baku Hydrometeorological Observatory (Bakinskaya gidrometeorologicheakaya observatoriya TITLE: Surface currents in the Centrel and southern Caspian Sea in the 1215 various wind fields SOURCE: Ckeanologiya, v. 5, no. 1, 1966, 82-88 TOPIC TAGS: ocean dynamics; ocean current, wind direction, wind velocity ABSTRACT: While numerous investigations have disregarded the effect of wind on currents in the Caspien See, Zenin (1929-1942), Hikheylovskiy (1931), Shtokman (1938), Legutin (1955), and Raheplinskiy have shown conclusively that winds are the primary motivating force behind currents in the Caspian Sea. The aim of the present investi-gation was to determine the direction of current as a function of various wind fields. The investigation is based on a review of the data obtained from 1936 to 1963. To simplify the study, Koshinskiy's wind classification system (with respect to direction and velocity) was used and the sea area was subdivided into squares of 201 x 201. The coefficient of stability (n), with respect to the continuity of the direction of the currents is given as: UDC: 551.465.52/553(262.8) Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020019-7



SOY/70-4-4-3/34

AUTHORS:

Belov, N.V. and Klevtsova, R.

TITLE:

Moreumen the Simplest Way of Developing the Fedorov

(Space) Groups

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 4, pp 473-476 (USSR)

ABSTRACT: The development. of the 230 space groups by the methods outlined in Eristallografiya, 1959, Vol 4, Nr 3, still presents some difficulties in dividing the translations introduced by various symmetrical and semi-symmetrical means. Even without a diagram it is possible to allocate a star, denoting displacement from the origin, to the planes in the space group symbol (in the first instance for the orthorhombic system). This is best done by writing down each halving. For example, Phon is expanded as Pm+b, m+c, m+a+b and should be written

> Pbxonx . All 16 primitive orthrohombic groups based on Pmmm are listed. The method is particularly suitable also for obtaining the tetragonal groups in the standard form. The remainder of the paper is devoted to showing

Card1/2

Nore on the Simplest Way of Developing the Fedorov (Space) Groups how these can be obtained. Various modifications of the usual notation are introduced, in particular, 4 is used for the special point on the inversion axis 4.

There are 4 figures and 4 references, 3 of which are Soviet and 1 English.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of Crystallography of the Ac.Sc., USSR)

SUBMITTED: May 15, 1959

Card 2/2

3 (a) SOY/20-126-1-41/62 Mamedov, Kh. S., Elevtsova, R. F., AUTHORS: Belov, N. V., Academician On the Crystalline Structure of the Tricalcium Silicate Hydrate TITLE: TSH = $6 \text{CaO} \cdot 2810_2 \cdot 3\text{H}_2\text{O} = \text{Ca}_6 \left[\text{Si}_2\text{O}_7 \right] \left(\text{OH} \right)_6 = \text{Ca}_4 \left[\text{Si}_2\text{O}_7 \right] \left(\text{OH} \right)_2$ ·2Ca(OH), (O kristallicheskoy strukture gidrata trekhkal'tsiyevogo silikata TSH = 6CaO-2SiO2-3H2O = $Ca_{6}[Si_{2}O_{7}](OH)_{6} = Ca_{4}[Si_{2}O_{7}](OH)_{2} \cdot 2Ca(OH)_{2}$ Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, PERIODICAL: pp 151-154 (USSR)

ABSTRACT:

The investigation of the cuspidine structure (Ref 1) became an important step towards further investigations of several Ca-silicates, above all of wollastonite and xonotlite (Ref 3). The main peculiarity of cuspidine and of the investigated structure of tilleite (Fig 1) was, compared to the Mg(Fe)- and Al-silicates, the rôle which the [SiO4] -tetrahedrons play in the latter and which is played by the diorthotic groups

Card 1/4.

in the Ca-silicates with respect to geometrical reasons.

On the Crystalline Structure of the Tricalcium SOV/20-126-1-41/62 Silicate Hydrate TSH = .6CaO·2SiO₂·.5H₂O = Ca₆[Si₂O₇](OH)₆ = Ca₄[Si₂O₇](OH)₂·.2Ca(OH)₂

The variety of the motives to which this group belongs in the Ca-silicates is considerably limited by a certain inertia of the diorthotic groups and the existence of only one direction with a dimension of 3.7 % (height of the group) (Figs 1:1 cursive). Thus a "tilleite band" occurs in both initially mentioned Ca-silicates as a mineralogical radical (Figs 1. 1). Figure 1 shows that a part of the tilleite band consists of 8 octahedrs and two [81207] groups. The 14 0-atoms of the two last groups are, however, not sufficient to counterbalance the cation charges. This is compensated (according to Ref 5) by additional amions F, OR in the cuspidine structure. The latter consists completely of tilleite bands of a most simple formula: Ca₈[Si₂O₇]₂(F, OH)₄ - 2Ca₄[Si₂O₇](F, OH)₂. The second variant of the two most simple geometrical solutions for such a formula is realised in nature. In this case the members of Ca-octahedra of a tilleite band continue one another in forming somewhat longer 4-membered members.

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On the Crystalline Structure of the Tricalcium SOV/20-126-1-41/62 Silicate Hydrate TSH = $6\text{Ca}0.2810_2.3\text{H}_2\text{O} = \text{Ca}_6\left[\text{Si}_2\text{O}_7\right](\text{OH})_6 = \text{Ca}_4\left[\text{Si}_2\text{O}_7\right](\text{OH})_2.2\text{Ca}(\text{OH})_2$

It seems that the latter strengthen the structure since they lie one behind the other. In the structure of tilleite itself the tilleite bands are not fused, they are related to one another by additional CO₃-groups. This demands the introduction of an additional Ca-octahedron as well, so that the formula will be Ca₄[Si₂O₇]CO₃·CaCO₃ (Fig 2). In 1958 (Ref 6) new data on the hydrothermal synthesis of the substance mentioned in the title (TSH) were published and a formula suggested. If the formula of the tilleite band is reduced from the formula of TSH 2 portlandite molecules Ca(OH)₂ are obtained. It is assumed that these were replaced in the formula to the "side chain" outside the cuspidine nucleus (Table 1). They form a third layer with their 4 OH particles which links the tilleite bands (with 2 layers). The additional Ca-octahedra (Fig 3) which replace the CO₃ groups in tilleite are placed here as well. The authors draw the conclusion that

Card 3/4

On the Crystalline Structure of the Tricalcium SOV/20-126-1-41/62 Silicate Hydrate TSH = $6\text{CaO} \cdot 2\text{SiO}_2 \cdot 3\text{H}_2\text{O} = \text{Ca}_6 \left[\text{Si}_2\text{O}_7\right] (\text{OH})_6 = \text{Ca}_4 \left[\text{Si}_2\text{O}_7\right] (\text{OH})_2 \cdot 2\text{Ca}_4 (\text{OH})_2$

the TSH structure is pseudohexagonal, similarly to anhydrous tricalcium silicate. The authors of reference 5 are therefore rather wrong when they insist on a true hexagonality of TSH. This is confirmed as well by the thermogram. There are 3 figures, 1 table, and 6 references, 4 of which are Soviet.

ASSOCIATION:

Institut khimii Akademii nauk AserbSSR (Institute of Chemistry of the Academy of Sciences, Aserbaydshan SSR) Institut kristallografii Akademii nauk SSSR (Institute of Crystallography of the Academy of Sciences, USSR)

SUBMITTED:

February 26, 1959

Card 4/4

KLHYTSOYA R.E.; BELOV, M.V.

Orystal structure of spurrite. Kristellografiia 5 no.5:689-697 8-0 '60. (MIRA 13:10)

1. Institut kristallografii AN SSSR i Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR. (Spurrite)

YERNILOYA, L.P.; MOLEYA, V.A.; KLEYTSOYA, R.F.

"Chukhrevite," the new mineral from central Essakhstan. Zap. Vses. min. ob-va 89 no.1:15-25 '60. (MIRA 13:10) (MIRA 13:10)

1. Institut geologii rudnykh mesteroshleniy, petregrafii, mineralogii i geokhimii (IOMM) AN SSER, Koskva. (Kasakhatas-Chukrevite)

CIA-RDP86-00513R000723020019-7" APPROVED FOR RELEASE: 06/19/2000

BORISOV, S.V.; KLEVISOVA, A.F.

Crystal structure of TR-Sr-apatite. Zhur.strukt.khim. 4 ne.4:629-631 J1-Ag '63. (MIRA 16:9)

1. Institut neerganicheskey khimii Sibirskege etdeleniya AN SSSR, Nevesibirsk.

(Apatite) (Strentium) (Rare earths) (Crystallegraphy)

KLEVISOVA, R.F.

Crystal structure of strontius spetits. Thur.struki.khia. 5 no. 2:318-320 Mr-Ap 164. (HIRA 17:5).

1. Institut neorganicheskoy knimii Sibirskogo otdeleniya AN SSSH, Novosibirsk.

ACCESSION NR: AP4044276

8/0192/64/005/004/0583/0589

AUTHOR: Klevtsov, P. V.; Klevtsova, R. F.; Sheina, L. P.

TITLE: Crystalline yttrium hydroxides

SOURCE: Zhurnal strukturnoy khimii, v. 5, no. 4, 1964, 583-589

TOPIC TAGS: yttrium hydroxide, yttrium monohydroxide, single crystal growth, hydrothermal crystal growth, ferrite crystal growth, single crystal structure

ABSTRACT: Transparent colorless crystalline phases previously observed in the products of hydrothermal synthesis of yttrium ferrite single crystals have been identified as yttrium hydroxides, YOOH and Y(OH)₃. The crystal structure of these hydroxides was studied goniometrically and by x-ray diffraction, chemical analysis, and other methods. The study was considered necessary for better understanding of the phase equilibria and chemical reactions in hydrothermal systems. The YOOH and Y(OH)₃ single crystals used in the study were synthesized in hydrothermal conditions from either Y₂O₃-Fe₂O₃-He₂O-NaOH or Y₂O₃-He₂O-NaOH or Y₂O₃-He₂O-NaOH system. Host of the YOOH single crystals were in the form

Card 1/2

ACCESSION NR: AP4044276

of hexagonal plates belonging to the prismatic class of the monoclinic crystal system and to the P21/m space group. Typical Y(OH)3 single crystals were needle-shaped, 1 cm x ≈ 0.6 mm, belonging to the hexagonal system and to the P63/m space group. Dimensions of the unit call were determined for both hydroxides. The piezoelectric effect was not detected in freshly prepared YOOH or Y(OH)3 crystals. The x-ray diffraction patterns of Y(OH)3 crystals were found to be similar to those of H(OH)3, were H is La, Nd, Sm, Gd, or Er. It was concluded that only two crystalline phases—Y(OH)3 and YOOH—are formed, individually or simultaneously, in the Y2O3-H2O-NsOH system below 600C. Origant. has: 2 figures and 3 tables.

ASSOCIATION: Institut neorganicheskoy khimii SO AN SSSR, Novosibirsk (Institute of Inorganic Chemistry, SO AN SSSR)

SUBMITTED: 11Ju163

ENCL: 00

SUB CODE: 85. IC

NO REF SOV: 004

OTHER: 006

Cord 2/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020019-7

L 26050-65 EMT(m)/T/EMP(t)/EMP(b) IJP(c) JD/JO

ACCESSION NR AP5001708

S/0192/54/005/006/0860/0863

B

AUTHOR: Klevtsova, R. F.; Klevtsov, P. V.

TITLE: Investigation of the crystal structure of YOOH

SOURCE: Zhurnal strukturnoy khimii, v. 5, no. 6, 1964, 860-863

TOPIC TAGS: YOOH, Y(OH)3, crystal structure, IR spectra, x ray analysis

ABSTRACT: An x-ray study was made of the crystal structure of the monohydroxide YOOH and of the trihydroxide $Y(OH)_3$. The former belongs to the spatial group $P2_1/m$, the trihydroxide- $P6_3/m$. YOOH can be obtained from $Y(OH)_3$ by heating under hydrothermal conditions. The crystal structure of the two compounds is comparable—in both structures all atoms are spaced analgously. Their IR spectra were studied. The calculated Y(OH) interation is listance, 2.31 Å, was an indirect indication of the existence of hydrogen honding in YOOH. The three hydroxide groups in $Y(OH)_3$ are not crystallochemically equivalent. The authors thank G, N, Kustov for taking the infrared spectra. Orig. art. has: 6 figures and

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CI

CIA-RDP86-00513R000723020019-7

L 26050-65

ACCESSION NR: AP5001708

1 table

ASSOCIATION: Institut neorganicheskoy khimii 80 AN SSSR Novosibirsk (Institute

of Inorganic Chemistry, 80 AN SSSR)

SUBMITTED: 03Jan64

ENCL 00

SUB CODE: IC, GC

NR REF WIT 004

OTHER 004

BORISOV, S.V.; ERUSENTSEV, F.A.; KLEVTSOVA, R.F.; BELOV, N.V., akademik

Crystal structure of creedite Ca3Al2(P,OH)10SO4.2H2O. Dokl. AN SSSR 155 no. 5:1082-1084 Ap '64. (HIRA 17:5)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

BORISOV, S.V.; KLEVISOVA, R.F.; BELOY. H.V., akademik

Crystalline texture of "uklonskovite" NaMg[SO,](OH)-28,0.
Dokl. AN SSSR 158 no.1:116-118 S-0 '64 (MIRA 17:8)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

RIEVTSOV, P.V., KIEVTSOVA, R.P., KFFELI, L.M.; PLYASOVA, L.M.

Forms of growth and symmetry of iron solybdate Fe₂(MO₂)₃ crystals. Isv. AN SSSR. Neorg. mat. 1 no.61918-923 J2 165.

(MIRA 18:8)

1. Institut neorganicheskoy khimii i Institut kataliza Sihirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020019-7"

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CIA-RDP86-00513R000723020019-7

L 6 #20-#5 EEC(b)-2/EFT(1)/EFT(m)/EMP(b)/T/EMP(t) P1-4 TJP(c) CC/JD/JC XCCFSSION NR AP5016921 UR/0192/65 '006/003/0469/0471 548,736

AUTHOR: Klevtsov, P.V.; Klevtsova, R. F.; Sheina, L.P.

TITLE: Crystalline yttrium hydroxychloride

SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 3, 1965, 469-471

TOPIC TAGS: yttrium compound, yttrium hydroxychloride, crystal structure

ABSTRACT The chemical composition of crystalline yttrium hydroxychloride was decremed. Chemical analysis gave the following results in wt. 3. Y3. 54 8; C1-, 22.0. H20. HC1, 31.3. Infrared spectra showed the absence of water of crystallization and the presence of hydroxyl groups. The results of the chemical analysis led to the formula Y(OH)₂C1, which was confirmed by an x-ray structural study. The compound belongs to the rhombic system; its Laue class is D2h - mmm, the unit cell parameters are: a = 6.21 ± 3. h = 12.54 ± 0.06 Å, c = 3.62 ± 0.02 Å. The average density of the crystals measured by the flotation method is 3.71 g/cm³, hence, the unit cell contains four formula units Y(OH)₂C1 (the x-ray density is 3.73 g/cm³). X-ray powder diagrams of the Y(OH)₂Cl crystals were also studied. Orig. art. has: 1 table.

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723020019-7

1 63620-65

ACCESSION NR: AP5016921

ASSOCIATION: Institut neorganicheskoy khimii 80 AN SSSR, Novosibirsk (Institute of

inorganic Chemistry, SO AN SSSR)

SUBMITTED: 04Apr64

ENCL: 00

SUB CODE: 55,60

NO REF SOV: 006

OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723020019-7"

Shapes of crystal growth and crystalline structure of TC1 (OH)2. Dokl. AN SSSR 162 no.5:1849-1052 de '65. (MIRA 18:7) 1. Institut meorganicheskoy khimii Sibirskogo otdeleniya AN SSSR. Submitted December 19; 1964.

BIDISHITSEV, F.A.; BORISOV, S.V.; KLEVISOVA, R.F.

Defining more accurately the orystalline atmospher of creedite Ca₃Al₂(P,OH)₁₀SO₄.2R₂0. Zhur. strukt. khim. 6 no. 4:567-570

J1-Ag '65 (MIRA 19:1)

1. Institut neorganicheskoy khimii Silirahogo otdeleniya AN 353R, g. Novosibirak. Submitted June 22, 1964.

KIEVIBOVA, T. V.

"Experimental Investigations of the Characateristics of Ultrasound Propgation in Binary Mistures."

report presented at the 6th Sci. Conference on the Application of Ultrasound in the investigation of Matter, 3-7 Feb 1958, organized by Min. of Education RSFSR and M scow Oblast Pedagogic Inst. im. N. K. Krupskaya.

L 54829-65 EPF(c)/EWT(m)/EWP(1)/T Pr-4/Pc-4 RM

ACCESSION NR: AP5014945

UR/0065/65/000/006/0005/0010 66.092.141542.973

AUTHORS: Klevtsova, V. P.; Rapoport, I. B.; Vselyubskiy, S. B.

TITLE: Synthesis of hydrocarbons with oxygen-containing compounds from CO and H2 above the iron-copper catalysts q

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1965, 5-10

TOPIC TAGS: hydrocarbon, hydrocarbon conversion, synthetic hydrocarbon, synthesis property, oxygen compound, hydrogen, catalysis, catalyst carrier, catalytic activity/VII gas testing device, TSIATIM 51 gas testing device

ABSTRACT: Precipitation of Fe-Cu catalysts (with a high content of metallic iron) and their behavior during the synthesis of products from CO + H₂ were studied to determine the role of the metallic iron in the high volumetric rate synthesis. The catalyst precipitates were reduced at 4500 until their content of metallic iron was 94-99%. They were tested in a continuous flow device with and without residual gas circulation. Temperature, pressure, the fresh gas consumption, and the quantity of waste gas were measured at definite time intervals. Residual gas and the propane-butane fraction were analysed in the VTI and the TsIATIM-51 gas

L 54829-65 ACCESSION NR: AP5014945

testing devices. Different distillates were obtained from the liquid products and were analyzed for their content of alcohols, acids, esters, carbonyl, and unsaturated compounds. Variation in the catalytic activity of a Fe-Cu-Mn-potash agent was observed with the change in the amounts of its components. Best results were obtained with 100fe : 2Cu : LMm : 0.75K20, producing 92 g/m3 CO + H2 of liquid and 15 g/m3 CO + H2 of gaseous hydrocarbons at 2950 and 87% Co transformation. At 5% Cu the production of liquid hydrocarbons dropped to 61 g/m3; at 1.2% K_2 O the CO transformation dropped to 52% and the yield of liquid hydrocarbons to 35%. The effect of the catalyst reduction temperature on its activity is shown graphically in Fig. 1 on the Enclosure, that of the reduction time on the yield of the synthetic product in Fig. 2. With the increase in the reduction temperature from 450 to 8000, the specific surface of the catalyst decreased from 30 to 5 m2/g because of pore fusion. This decrease in the adsorptive properties resulted in the formation of mostly gaseous hydrocarbons, reducing drastically the production of liquid ones. Orig. art. has: 5 tables and 3 figures.

ASSOCIATION: VNII NB

SUBMITTED: 00

ECL: 02

SUB CODE:

NO REF SOV: 008

OTHER: 006

Card 5/7

KLEVISOVA, Z., 1 msh.

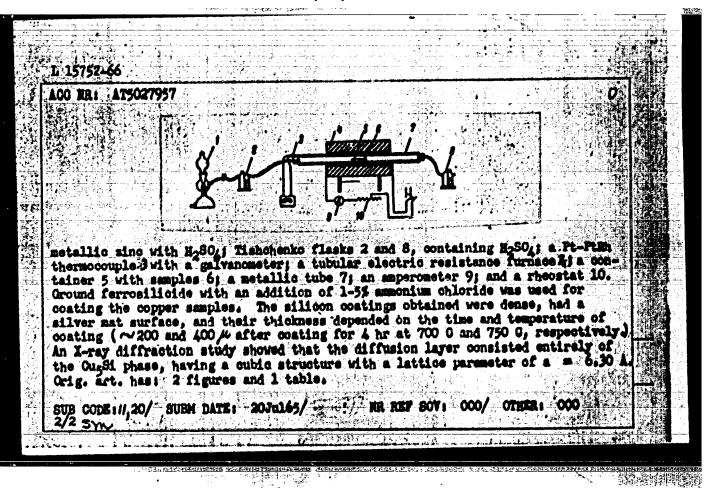
Intallation for conveying milling products by means of aeresol at the Alma-Ata Grain Milling Combine. Muk-elev. prom. 27 no.6:14-15 Je '61. (MIRA 14:6)

1. Ministerstvo sagetovek Kasakhskoy SSR.

(Alma-Ata-Flour mills-Equipment and supplies)

(Pneumatio-tube transportation)

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TOPIO TA	We electrolyte,	copper. gilicon.	internal stre	ss, crystal 1	stilos 📜	
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and peal	ing off of the co	tines. Experime	ints on the dif	rusion coatin	a or cobber	
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	Bull of the Control o	ten Brahamana, and bed			との行為に不られませばる	G. M. Gallet, T. F. W. Hallet



BORISENKO, A.I., doktor tekhn. nauk, otv. red.; TOROFOV, N.A., red.; IVANOV, V.Ye., red.; APPEN, A.A., doktor khim. nauk, red.; ORRUNOV, N.S., doktor khim. nauk, red.; KLEVISHR. S.A., doktor tekhn. nauk, red.; NECHIPORENKO, Te.P., doktor tekhn. nauk, red.

[Heat-resistant coatings; transactions] Zharostoikie pokrytiia; trudy. Leningrad, Nauka, 1965. 233 p.

(MIRA 18:9)

1. Seminar po sharostoykim pokrytiyam, Leningrad, 1964.
2. Chlen-korrespondent AN SSSR (for Toropov, Ivanov).

BOYARSKIY, M.W.; KLHYYADO. A.M., prepodavatel istorii partii; LAHDO, M.M.; MOLOTKOV, L.D.; POPOVA, I.V., istorik; TKACHEHKO, P.M.; POCHEBUY, G.A., kand.istor.nauk, starshiy nauchnyy sotrudnik, nauchnyy red.; ROZAHOV, M.D., red.; TIKHOHOVA, I.M., tekhn.red.

[Resources for electrification; brief description of the history of the Leningred "Electric power" Plant named in honor of S.M. Kirov] Arsenal elektrifikatsii; kratkii ocherk istorii leningradskogo savoda "Elektrosila" imeni S.M.Kirova. Leningrad, Lenisdat, 1960. 267 p. (MIRA 13:7)

1. Zemestitel' direktora savoda "Elektrosila" (for Boyarskiy).

2. Machal'nik byuro tekhnicheskoy informatsii savoda "Elektrosila" (for Lendo).

3. Redaktor savodskoy gazety "Elektrosila" leningradskogo savoda "Elektrosila" (for Molotkov).

4. Tekhnicheskiy musey savoda "Elektrosila" (for Popova).

5. Zaveduyushchiy kabinetom politicheskogo prosveshcheniya pertkoma savoda "Elektrosila" (for Tkachenko).

6. Institut istorii pertii pri Leningradskom obkome Kommunisticheskoy partii Sovetskogo Soyusa (for Pochebut).

(Leningrad--Electric power plants)

KLEWENHAGEN, J.

KLEWENHADEN, J. Prevention of harmful coupling in receivers. p. 29. Vol. 6, no. 1, Jan. 1956
RADICAMATOR. Warssawn Poland

SOURCE: East European Accessions List (EEAL) Vol. 6 No. 4 April 1957

POLAND

Wojciech GIELWANOWSKI and Stanislaw KLEWENHAGEN, First Gynecology and Chatetric Clinic, College of Medicine (T Klinika Polosnictwa i Chorob Kobiecych AM) Head Frof Dr W. MICHALKIEWICZ; and Department of Medical Radiology (Zaklad Radiologii Lekarskiej AH) Head Frof Dr B. GLADYSZ, Forman.

"Diagnostic X-Ray Examination and Early Pregnancy."

Varsav, Polski Tygodnik Lekarski, Vol 17, No 46, 12 Nov 1962; pp 1785-1789.

Abstract [English summary modified]: Studies in 15 women and in dumnies revealed that the dose received by the pregnant uterus and the gonads during any radiologic diagnostic tests in early pregnancy was inadmissible. Details of apparatus and technique are outlined to minimize the damage or eliminate it. Three tables, 2 graphs, 2 Polish and about 30 Wastern references.

1/1

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KLEWENHAGEN, Stanislaw; NALEWAJSKI, Wieslaw

Automatic syrings -- a device for rapid injection of contrast medium. Pol. przegl. radiol. 28 no.6:613-618 N-D '64.

1. Z Zakladu Radiologii Akademii Medycznej w Poznaniu 'Kierow-nik: prof. dr. med. B. Gladysz) i Katedry Obrabiatel Politechniki Poznanskiej (Kierownik: doc. inz. M. Tutak).

GIELWANOWSKI, Wojciech; KLEWENHAGEN, Stanislav

Diagnostic radiological examination and early pregnancy. Pol. tyg. lek. 17 no.46:1785-1789 12 N '62.

1. Z I Kliniki Polosnictwa i Chorob Kobiecych AM w Posnaniu; kierownik: prof. dr med. W. Michalkiewicz i z Zakladu Radiologii Lekarskiej AM w Posnaniu; kierownik: prof. dr med. B. Gladysz.

(PREGNANCY) (RADIOGRAPHY)

KLEWENHACEN, Stenisley

Characteristic properties of antiscattering grids and criteria for their use. Pol. przegl. radiol. 29 no.1391-100 Ja-F165.

1. Z Zakladu Radiologii Lekarskiej Akademii Hedyomej w Poznaniu (Kierownika prof. dr. med. B. Cladysm).

Modernisation of the cable railway to Kasprowy Wierch. Przegl mech 20 no.24:740-743 'Cl. 1. Pracownia Transportu Linowege, Zakopane. (Poland—Railroads, Cable)

S/270/63/000/001/007/024 A001/A101

AUTHOR:

Klewin, P.

TITLE:

An investigation of the adequacy of a multi-line cross-wire for

measuring horisontal angles

PERIODICAL: Referativnyy zhurnal, Geodeziya, no. 1, 1963, 29, abstract 1.52.200 ("Vermessungstechnik", 1962, v. 10, no. 7, 194 - 195, German)

TEXT: The author presents and compares the results of measuring horizontal angles carried out by means of a Theo OlO theodolite with a cross-wire consisting of five vertical wires (separation between the wires is 250⁸⁸) and that with a cross-wire having one vertical wire. Angular measurements were conducted by different methods and at distances to targets being 1.5 - 5 km. It is concluded that using five wires for observations yields no gain either in time or in the accuracy of measurement results. It takes 58 min to measure five directions by two observations aiming at the target with each of the five wires, whereas the measurement of five directions by five observations and aiming at the target with one wire takes 46 min. The influence of errors in circle divi-

Card 1/2

An investigation of the ...

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sions upon the result in the first case is considerably higher than in the second case. It is proposed to investigate the accuracy of measuring horizontal angles with the Theo OlO theodolite with a cross-wire of three vertical wires separated by not less than 10⁸. It is noted that the use by V. P. Koslov (RZhAstr, 1958, no. 6, 4127) of a cross-wire with three vertical bissectors yielded satisfactory results.

K. Shingareva

[Abstracter's note: Complete translation]

Card 2/2

KLEKSKA, A.; WAHN, J.

Conditions of separating traces of barium from biological material. p. 225.

CHEMIA ANALITYCZNA. (Komisja Analitycana Polskie Akademii Neuk i Naczelna Organizacja Techniczna) Warszawa. Poland. Vol. 4, no. 2, 1959.

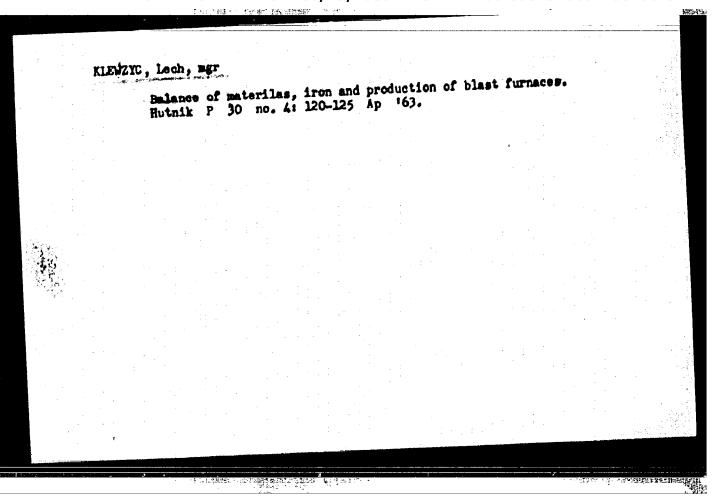
Honthly list of East European Accessions (REAI) LC, Vol. 8, No. 8, August 1959 Uncla.

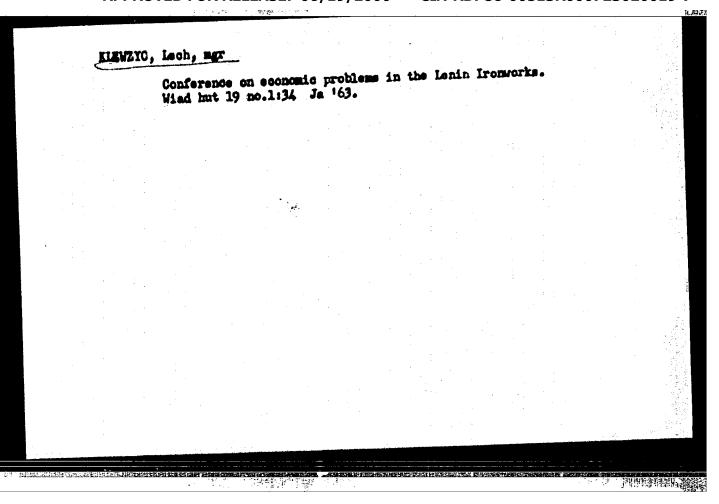
KIDADEA, Plekaandra: 10004(KadtaYCHARSKA, Marie Determination of small amounts of mine and cannium in biological material. "ata "ol. pharm. 20 no.6:433-440 %3. 1. Instytutu Ekspertys Sadouych w Krakowie (Lyrektor: prof. dr J. Jehn).

KLEWSKI, J.

Ignition as a result of static electricity, p. 26. (Ochrona Pracy; Bespieczenstwo i Higiena Pracy, Vol. 10, No. 5, Fay 1956, Werman, Poland)

SO: Monthly List of East European Accessions (FEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.





Tenth anniversary of activity of the blast furnace department of the Lenin Steel Works. Wiad hut 15 no.9:293-294 S 164.

ACC13810	"NJW/JD/WW/19W/JO/EM N MR: AP5014901	UB/0135/65/000/006/0042/0043 669:15-194:624.014.25:006.3
	Kleybanova, Zh. P. (Engineer)	
TITIE: for Weld	Scientific-Engineering Conference on Austeni ed Structures	7
	Svarochnoye proisvodatvo, no. 6, 1964, 42-43	ß
	GS: austenitic steel, boron steel, metal weld	
1	A scientifid-engineering conference on the cels in welded structures was held in Mosco	
chin	building at Gosplan SSSR-the Coordination	power, and transport ma-
	tric Welding Institute im. Ye. O. Paton (IES) esearch Institute of Technology and Machine	and the Centuci datastic
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	ACCESSION MR: AP5014901 24 K. V. Lyubavskiy in his opening statement emphasized the necessity of	
	developing new weldable heat-resistant materials for power units operating under conditions of high and ultrahigh temperatures and pressures. Austenitic	
	steels containing boron in amounts over 0, 2% are a promising type of such materials.	
	The remaining reports dealt with the development, melting, hot working, and welding of austenitic steels containing up to 2.0% boron. The conclusions	
•	of most of the reports were rather pessimistic. B. I. Medovar, N. L. Pinchuk, and L. V. Chekotilo (IES) reported on	
	EP380 (Kh15N15M2BR1); EP381 (Kh18N12BR1), EP531 (Kh18N12B2R1), and EP487 (Kh15N25V5T2RT) steeps. All four passess satisfactory mechanical	1
	properties and heat registance, high ductility in stress-rupture tests and are not susceptible to hot cracking in the weld-adjacent zone. The welds, however, have a low impact strength, 2-3 mkg/cm ² , and are susceptible to cold cracking	
-	heavy sections 30—50 mm thick cannot be welded without preheating to 150—200	
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Similar	results Were	obtained at th	e Central Scie	ntific Researc	b Institute
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sten-globium	teelcontainin	w 0.4-0.6% b	oron and by A	. V. Russiyan	and T. S.
Kireveva with	1Kh13N13V2	B steel contai	ming 0.05-0.5	poron? Doron	on at
contents over	0. 2% reduced	the susceptil	bility to hot cr	acking, increa	ses struc;
tural stability	and improve	s the dutility	in stress-rupt	ure tests. Ho	wever,
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	L 1568-66 ACCESSION NR: AP5014901
	R. B. Polyakova (All-Union Institute for the Design and Planning of
	Electric Power Projects) reported on field welding of EP467 steel plates 23—25 and 50 mm thick. Preheating to 200C helped to prevent cold cracking of welds in plates 25 mm thick, but attempts to weld 50 mm thick plates failed. The impact strength of the weld did not exceed 2—3 mkg/cm², compared to 7 mkg/cm² required by specifications.
	Yu. K. Vorob'yev (Elektrostal' Metallurgical Plant) discussed the experience at the plant in melting and hot working chromium-nickel sustanities
	steels with a boron content up to 2%. He noted certain difficulties in hot working because of the low plasticity of the metal and the narrow hot-working range.
1	
	Ye. M. Kontsevaya (Serp i Molot Plant in Moscow) reported on the production of wire, narrow sirip, and sheet from 16 boron-bearing steels. She also noted difficulties stemming from the low plasticity of these steels.
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0.5% boron. The simpact strength, D. a respective ruptur tility at these temp condition. In the final rether study of boron	yev and S. N. Minkins (I mickel-base, alloy for alloy has satisfactory may see a second as a satisfactory may be strength at 750 and 80 peratures, and a satisfactory and a satisfactory see a satisfactory and a satisfactory see a satisfactory austenitic at a satisfactory austen	gas turbine blader echanical propert at room or at his OC of 14 and 12 k tory structural s emphasized the n	which contains iet (except for the phase of the peratures) g/mm, high dustability in the ago	
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KLEYBER, V.G.

42576. O Dnouglubitel'nykh Rabotakh Ma Perekatakh. O Plane Zemlecherpat. Mabot Ma Volge Meshdu Rybinskom I Ust'em Kamy. Voprosy Gidrotekhniki Svobodnykh Rek. Sbornik Isbr. Trudov Osnovopoleshnikov Rus. Buslovoy Gidrotekhniki. M, 1948, S 302-26.

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MAYMAN, I.M.; KLMYBS, B.D.

Experience in the prevention of eye injuries in the metalworking industry. Vest.oft. 69 no.5:26-32 S-0 *56. (MLRA 9:12)

1. Is Moskovskogo instituta okhrany truda Vsesoyusnogo TSentral'nogo Soveta professional'nykh soyusov i Mauchno-issledovatel'skogo instituta glasnykh bolesney imeni Gel'mgol'tsa (dir. - kamiidat meditsinskikh nauk A.V.Roslavtsey)

(EYE, wounds and injuries
prev. in metal-working indust.)
(IHDUSTRIAL HYGINES
prev. of eye inj. in metal-working indust.)

Safety goggles. Zdorov's 7 no.7:20 Jl '61. (MIRA 14:6) (SAFETI GOGGLES)

ROSLAVISEV, A.V.; URMAKHER, L.S.; LEVINA, A.I.; KIEYRS, B.D.

Government standars for protective goggles. Hed. prom. 16 no.6:23-26 F 162. (HIRA 15:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glasnykh bolesney imeni Gel'mgol'tea. (SAFETY GOGGLES)

ELETES, Boris Davydovich; RABINOVICH, M.G., red.; BALDIMA, M.F., tekhn. red.

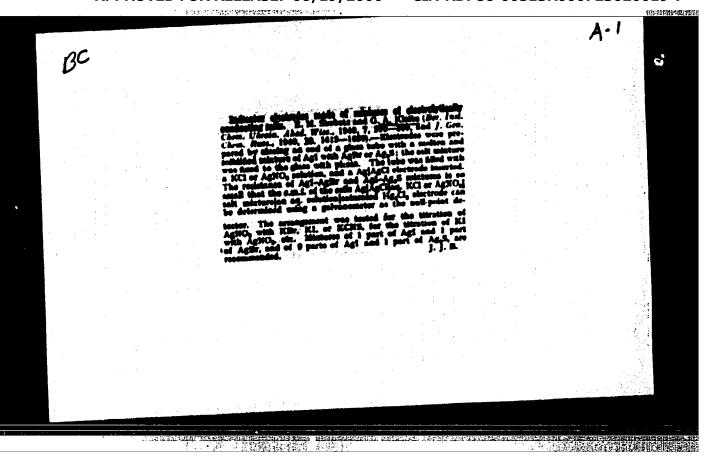
[Protect your eyes in industry] Beregite glass na proisvodsive. Moskva, Cos. isd-vo med. lit-ry Medgis, 1960. 29 p.

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KLEYBS, G. A.

"Indicator Electrodes from Alloys of Electrolytically Conducting Salts," Zhur. Obshch. Khim., 10, g. 1612-No 17, 1960. Lab of Inorganic and Analytic Chem., Kiev Agricultural Inst. Received 22 April 1960.

Report U-1610, 3 Jan 1952.

